

Page 94, line 9: after "MDK1.T2" please insert --(SEQ ID NOS: 3 and 5, respectively)--.

IN THE CLAIMS:

Please cancel claims 5-15 and 27 without prejudice. Please amend claims 1-4 and 16-26 as follows:

1. (once amended) An isolated, enriched or purified nucleic acid
(a) encoding a MDK1 polypeptide comprising the amino acid sequence set forth in SEQ ID NO: 2; or
(b) that hybridizes under stringent conditions to the nucleic acid of (a).
2. (once amended) A nucleic acid probe for the detection of (a) a nucleotide encoding a MDK1 polypeptide comprising the amino acid sequence set forth in SEQ ID NO: 2; or b) a nucleotide that hybridizes under stringent conditions to the nucleotide of (a) in a sample.
3. (once amended) A recombinant nucleic acid (a) encoding a MDK1 polypeptide comprising the amino acid sequence set forth in SEQ ID NO: 2; or b) that hybridizes under stringent conditions to the nucleotide of (a) and a vector or a promoter effective to initiate transcription in a host cell.
4. (once amended) A recombinant nucleic acid comprising a transcriptional region functional in a cell, a sequence complementary to an RNA sequence (a) encoding a MDK1 polypeptide comprising the amino acid sequence set forth in SEQ ID NO: 2; or b) that hybridizes under stringent conditions to the nucleotide of (a); and a translational termination region functional in a cell.

Claim 16, line 2: After "1" please delete "having" and substitute therefor --comprising--;

Claim 17, line 3: After "sequence" please delete "having" and substitute therefor --comprising--;

Claim 18, line 1: After "acid" please delete "having" and substitute therefor

--comprising--.

19. (once amended) [The] An isolated, enriched, or purified nucleic acid [of claim 1 wherein said nucleic acid encodes] encoding MDK1.T1 set forth in SEQ ID NO:3; MDK1.T2 set forth in SEQ ID NO: 5; MDK1.Δ1 set forth in SEQ ID NO:11; and MDK1.Δ2 set forth in SEQ ID NO:12.

20. The isolated, enriched, or purified nucleic acid of claim 1 wherein said nucleic acid encodes a [functional] derivative of the full length MDK1 amino acid sequence set forth in SEQ ID NO 2 which is capable of interacting with a binding partner or which retains phosphorylation activity.

Claim 21, line 2: After "MDK1" please insert --polypeptide--.

Claim 22, line 2: After "MDK1" please insert --polypeptide--.

Claim 23, line 2: After "MDK1" please insert --polypeptide--.

Claim 24, line 2: After "MDK1" please insert --polypeptide--.

25. (once amended) An isolated, enriched, or purified nucleic acid comprising a nucleic acid sequence encoding two or more of the domains selected from the group consisting of the MDK1 polypeptide extracellular domain, the MDK1 polypeptide transmembrane domain, the MDK1 polypeptide kinase domain, and the MDK1 polypeptide intracellular domain.

26. (once amended). A host cell which is genetically engineered [host cell containing] to express the [a] nucleic acid of claim 17, 19, 21, 22, 23, 24 or 25.

REMARKS

Applicants would like to affirm the oral election with traverse of Group I (claims 16-26)